

L 7678-66 EPA/EWT(m)/EWP(f)/FCC/EWP(j)/FCS(f)/EWP(n)/EWA(c)/ETC(m) RPL  
WW/JWD/RM SOURCE CODE: UR/0405/65/000/001/0025/0030  
ACC NR: AP5026023

AUTHOR: Belyayev, A. F.<sup>44,55</sup> (Moscow); Kondrashkov, Yu. A.<sup>44,55</sup> (Moscow); Lukashenya, G. V. (Moscow); Parfenov, A. K. (Moscow); Tsygankov, S. A. (Moscow)

ORG: none

73  
11B

TITLE: Flame combustion of model mixtures of oxidizer with fuel

SOURCE: Nauchno-tehnicheskiye problemy goreniya i vzryva, no. 1, 1965, 25-30

TOPIC TAGS: propellant solid propellant combustion, composite propellant,  
burning velocity 23,44,55

ABSTRACT: The relationship between the burning velocity ( $u$ ) and pressure ( $p$ ) of composite propellants has been studied at subatomic pressure. Ammonium perchlorate-trotyl, potassium perchlorate-trotyl, ammonium perchlorate-asphalt, ammonium perchlorate-paraformaldehyde, and ammonium perchlorate-polystyrene were ground to 20 to 40  $\mu$  and intensively mixed and compacted to 98% of the maximum density. Although the propellants had different fuels, oxidizers, and polymer binders, the  $u$ -vs- $p$  relationships were linear. Therefore, it appears that systems which contain sufficiently fine components and a fuel which can be

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gasified by decomposition, pyrolysis, or evaporation, give linear  $u$ -vs- $p$  relationships at subatmospheric pressure. The experimental results together with an evaluation of burning velocities at higher pressures, obtained previously, indicate that the following four regions exist: 1) a low-pressure region characterized by a plane flame front up to about 2 atm ( $D = 1$ ); 2) the region of transition from a plane to a multiflame front with a nonlinear  $u$ -vs- $p$  relationship ( $D < 1$ ) at 2.5-3 to 100-250 atm; 3) a high-pressure region characterized by a multiflame front but with a linear  $u$ -vs- $p$  relationship from 100-200 to 1000-1500 atm; and 4) a region above 1500 atm ( $D < 0.3-0.4$ ). Multiflame fronts consist of flames which propagate along the fuel-oxidizer boundaries into the propellant. Orig. art. has: 6 figures. [PV]

SUB CODE: FP/ SUBM DATE: 02Nov64/ ORIG REF: 009/ OTH REF: 002/ ATD PRESS:  
4/41

Card 2/2

TSYGANKOV, S. K., entomolog (Kursk)

Need of a station for protecting ornamental plantations.  
Zashch. rast. ot vred. i bol. 5 no.11:12-13 N '60.  
(MIRA 16:1)

(Kursk--Plants, Protection of)

TSYGANKOV, S. K.

Bee-Culture

Erecting honeycombs close to the pollinated culture Pchelovodstvo 29, no. 5, May 1952

9. Monthly List of Russian Accessions, Library of Congress, August <sup>2</sup> 1953, Uncl.

1. TSYGANKOV, S.K.
2. USSR (600)
4. Fertilization of Plants
7. Bee pollination increases the yield and quality of fruit, Pchelovodstvo 30 no. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

TSYGANKOV, S.K., kandidat sel'skokhozyaystvennykh nauk.

Gall gnats as pests of black currant. Ref. nauch. rab. VNIIEHOP no.3:  
99-102 '55. (MIRA 9:11)  
(Currants--Diseases and pests)

TSYGANKOV, S.K., kandidat sel'skokhozyaystvennykh nauk.

Morphological and biological characteristics of the currant clearwing  
moth (Synanthedon tipuliformis). Ref. nauch. rab. VNIIKOP no.3:102-106  
'55. (MLRA 9:11.)  
(Currants--Diseases and pests)

CHESNOKOV, Pavel Grigor'yevich; TSYGANKOV, S.K., redaktor; POPYRADUKHIN,  
K.A., tekhnicheskiy redaktor

[Resistance of grain crops to insects] Ustoichivost' zernovykh  
kul'tur k nasekomym. Moskva, Gos. izd-vo "Sovetskaia nauka," 1956.  
306 p. (MIRA 10:1)  
(Grain--Disease and pest resistance)

I-6

USSR/General and Special Zoology - Insects.

Abs Jour : Ref Zhur - Biol., No 5, 1958, 21133

Author : Tsygankov, S.K.

Inst : -  
Title : The Protection of Black Currants Against Dangerous Pests.

Orig Pub : Zashchita rast. ot vredit. i boleznei, 1957, No 3, 46-48

Abstract : No abstract.

Card 1/1

TSYGANKOV, S.K., kand. sel'skokhoz. nauk (Kursk)

Measures for controlling the azalea lace bug. Zashch. rast. ot  
vred. i bol. 4 no.2:31-32 Mr-Ap '59. (MIRA 16:5)

(Krasnodar Territory--Fruit--Diseases and pests)  
(Krasnodar Territory--Lace Bugs--Extermination)

TSYGANKOV, S.K., kand.sel'skokhoz.nauk

Bud mite Eriophyes ribis Nal. on currants. Zashch. rast. ot vred.  
1 bol. 6 no.9:38-40. S '61. (MIRA 16:5)  
(Currants--Diseases and pests)  
(Gall mites--Extermination)

TSYGANKOV, S.P., inzh.

Results of testing ShMAT-1660/1340/730 axial-tangential mill.  
Elek. sta. 33 no. 6:17-21 Je 62. (MIRA 15:7)  
(Electric power plants—Equipment and supplies)  
(Milling machinery)

TSYGANKOV, S.P., inzh.; FEDOTOV, D.S., inzh.

Results of testing axially-tangential mills grinding coal from  
the Moscow region. Elek. sta. 35 no.11:16-20 N '64.  
(MIRA 18:1)

TSYGANKOV, S.P., inzh.

Effect of the diameter of the rotor on the principal indices of hammer  
mills. Elek. sta. 36 no.6:21-25 Je '65. (MIRI 1817)

TSYGANKOV, S.P., inzh.

Firing of Moscow Basin coal in shaft-type impact mill furnace!!  
equipped with ejector orifices. Elek. sta. 30 no.3:19-23 Mr  
'59. (MIRA 12:5)  
(Boilers)

ENSYGANKOV, S.P., inzh.

Investigation pulverized of a coal system with a ball mill operating on low-grade coal with additional sieving of the returned portion. Elek. sta. 31 no. 3;10-17 Mr '60. (MIRA 13:8)  
(Coal, Pulverized)

TSYGANKOV, P. S.; MALEZHIK, I. F.

Effect of the concentration of the feeding on the conditions of  
a rectification column. Izv. vys. ucheb. zav.; pishch. tekh. no. 2:  
110-113 '64. (MIRA 17:5)

.. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti,  
kafedra protsessov i apparatov.

TOYONKOW, S.P., dash.

Results of comparative tests of hammer mills. Flex. sta.  
35 no. 3:19425 Mr '64. (MIRA 17e6)

TSYGANKOV, S.P., inzh.

Technical equivalents of power fuels consumed at power plants  
of the U.S.S.R. Teploenergetika 6 no.12:63-67 D '59.  
(MIRA 13:3)

1. Vsesoyuznyy teplotekhnicheskiy institut.  
(Power engineering)

TSYGANKOV, S.P. inzh.

On the performance of a dust separator. Teploenergetika 4 no.12:92  
D '57. (MLHA 10:11)  
(Coal, Pulverized)

DIREKTOR, B. YA.: LUNIN, V. V.:  
TSYGANOV, S. P.: SHUKLER, B. I., Engrs.

Steam Boilers

Starting a high-pressure uniflow boiler assembly with shaft mills. Elek. sta. 2<sup>2</sup> no. 8, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED

TSYGANKOV, T.M., inzhener

Construction of pile foundations in frozen ground. Elek.sta.26  
no.8:46-47 Ag'55. (MLRA 8:12)  
(Piling (Engineering))

*T. A. G. 1*  
AID P - 3332

Subject : USSR/Power Engineering  
Card 1/1 Pub. 26 - 18/28  
Author : Tsygankov, T. M., Eng.  
Title : Driving foundation pilings into frozen soil  
Periodical : Elek. sta., 8, 46-47, Ag 1955  
Abstract : The driving of wooden piles to serve as foundations for transmission line poles in regions with permafrost and short summers is described. Different soils and their properties are described. Preserving the soil in premafrost state is recommended. Five diagrams.  
Institution : None  
Submitted : No date

TSYGANKOV, T.M., inzhener.

Simplified method of installing and aligning the legs (branches)  
of supports. Elek. sta.26 no.1:49 Ja '55. (MLRA 8:3)  
(Electric lines--Overhead)

TSYGANKOV, Ts.I., inzh., red.; SHERSTNEV, A.V., inzh., red.;  
STRASHNYKH, V.P., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Standards SN 220-62 for the technical design of enterprises producing precast reinforced concrete elements in multiple molds] Normy tekhnologicheskogo proektirovaniia predpriiatii sbornykh zhelezobetonnykh izdelii s kassetnym sposobom proizvodstva (SN 220-62). Moskva, Gosstroizdat, 1962. 14 p.  
(MIRA 16:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.  
(Concrete plants--Standards)

TSYGANKOV, V.

Special problems in flying over the Caucasian Range. Grazhd.av.  
13 no.9:10 S '56. (MLRA 9:11)  
(Transcaucasia--Meteorology in aeronautics)  
(Airplanes--Piloting)

TSYGANKOV, V.

Increasing production and consumption of footwear in the  
Chinese People's Republic. Kozh.-obuv.prom. no.10:36-37  
0 '59. (MIRA 13:2)  
(China--Shoe industry)

TSYGANKOV, V.

Gummenik's cutter-loader at the "Polysaevskaya-2" mine. Mast.  
ugl. 5 no.10:9-10 0 '56. (MLRA 9:12)

1. Zamestitel' upravlyayushchego trestom Leninugol' kombinat  
Kuzbassugol'.  
(Kuznetsk Basin--Coal mining machinery)

TSYGANKOV, V.

Unused potentialities should be put to action. Mast ugl. 4  
(MIRA 8:6)  
no. 4:9-10 Ap '55.

1. Zamestitel' upravlyayushchego trestom Leninugol' kombinata  
Kuzbasugol'.  
(Leninsk Kuznetskiy--Coal mines and mining)

CHERNORUTSKIY, G.S., kand. tekhn. nauk; TSYGANKOV, V.A., inzh.; SIBRIN, A.P., inzh.; KUZNETSOV, I.M., inzh.; GAFIYATULLIN, R.Kh., inzh.

Automatic control system of regulating the speed of rotation of the working element of the SBMK-5 boring machine. Izv. vys. ucheb. zav.; gor. zhur. 6 no.10:27-32 '63. (MIRA 17:2)

1. Chelyabinskiy politekhnicheskiy institut (for Chernorutskiy, TSygankov, Sibrin). 2. RIOGR (for Kuznetsov). 3. Sverdlovskiy gornyy institut imeni Vakhrusheva (for Gafiyatullin).

USSR / Microbiology. Antibiosis and Symbiosis.  
Antibiotics.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19485

Author : Tsyganov, V. A.  
Inst : Leningrad Chem.-Pharmaceutical Institute  
Title : Concerning the Antibiotic Activity of  
Extracts from the Fungus Fusarium species

Orig Pub : Sb. nauchn. tr. Leningr. khim.-farmatsevt.  
in-t, 1957, 3, 20-25

Abstract : The formation of antibiotic substances was  
studied in 18 cultures of Fusarium. In the  
majority of the cultures, the antibiotic  
is contained in the mycelium, from which it  
was extracted by organic solvents. The  
mycelium extract of Fusarium sp. No. F-10  
proved to be the most effective (the morphology

F

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15

USSR / Microbiology. Antibiosis and Symbiosis.  
Antibiotics.

F

Ref Zhur - Biologiya, No 5, 1959, No. 19485

Abs Jour

of the culture is described). The most favorable conditions for development, pigment-formation and accumulation of the antibiotic at 20-24° are in a medium, containing 20 g of glucose, 1 g of NaNO<sub>3</sub>, 0.5 g of MgSO<sub>4</sub>, 0.5 g of KH<sub>2</sub>PO<sub>4</sub>, 0.02 g of FeSO<sub>4</sub>; potato decoction, 1 : 10 - 1 l; pH, 3.69-4.16. The antibiotic is extracted by alcohol, acetone and chloroform; aqueous extracts are, as a rule, inactive. The extracts were distilled in vacuo. At a low temperature, an amorphous residue of a dark-red color remained after distillation, insoluble in water but soluble in alcohol, chloroform and acetone. The antibiotic is highly effective in relation to gram-positive

Card 2/3

F

USSR / Microbiology. Antibiosis and Symbiosis.  
Antibiotics.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19485

bacteria and *Candida albicans*; is not toxic  
for mice in intra-abdominal administration. --  
M. I. Nakhimovskaya

Card 3/3

16

TSYGANKOV, V.I., kand.tekhn.nauk

Use of the laws of conversion of a fractional linear function in  
the study of the properties of four-terminal networks. Trudy OMFTT  
(MIRA 18:10)  
42:23-34 '63.

TSYGANKOV, V.I.

Methods for determining the parameters of track circuits using  
relief maps of hyperbolic functions. Trudy OMIIT 36:5-16 '62.  
(MIRA 17:4)

TSYGANKOV, V.I.

Achievements of the textile workers of fraternal China. Tekst.  
prom. 19 no. 6-79 Je '59. (MIRA 12:9)

1. Sotrudnik Instituta Kitayevedeniya.  
(China--Textile industry)

TSYGANKOV, V.I., assistant

Deficiencies of circuits for the measurement of time parameters of  
relays. Avtom., telem. i sviaz' 3 no.2:25-26 F '59.  
(MIRA 12:4)

1. Tomskiy elektromekhanicheskiy institut inzhenerov zheleznodo-  
rozhnogo transporta.  
(Electric relays—Measurement)

TSYGANKOV, V.N.

Sugar manufacture in the Chinese People's Republic. Sakh. prom.  
33 no.11:72-74 N '59 (MIRA 13:3)

1. Institut kitayovedeniya AN SSSR.  
(China--Sugar manufacture)

TSYGANKOV, V. N., JT. AU.

Computations for boiler assemblies in examples and problems Moskva, Gos. energ. izd-vo,  
1951. 239 p.(54-22803)

TJ285. K3

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ASSOCIATION

ASSOCIATION

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STANDARD FORM 101

NO. RGS-101-A-1

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CIA-RDP86-00513R001757310012-4"

7111: Preparation of lead and financial planning

88-100-1001, no. 10, 1944, 1945

"APPROVED FOR RELEASE: 08/31/2001

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SPWITTE: CC

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NO REF SQN: 000

OTHER: 000

ATD PRESS: 3148

Card 2,2

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CIA-RDP86-00513R001757310012-4"

TSYGANKOV, Ye.M., kand. tekhn. nauk; PERFIL'YEV, L.A., inzh.

New developments in research. Stal' 24 no.11:1051 N '64.  
(MIREA 18:1)

TSyganov, Ye.M., kand. tekhn. nauk; PLENKOV, I.A., inzh.

New developments in research. Stal' 24 no.11:1055 N 162.  
(KIFI 18:1)

TSYGANKOV, Ye.M., kand. tekhn. nauk; PERFIL'YEV, L.A., inzh.

New developments in research. Stal' 24 no.12:1134 D '64.

New developments in research. Ibid.:1129

New developments in research. Ibid.:1099 (MIRA 18:2)

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Card 1/2

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CIA-RDP86-00513R001757310012-4"

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

Card 2 / 2

TSYGANOV, Ye. M., Cand Tech Sci--(dies) "Experimental study of the process  
of molding and welding of pipes in ~~the~~<sup>furnace</sup> welding mills." Mos, 1958.  
13 pp (Min of Higher Education USSR. Mos Order of Labor Red Banner Inst  
im I.V.Stalin), 120 copies (KL,30-58, 129)

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18.5000

75583  
SOV/130-59-10-15/20

AUTHORS: Tsygankov, Ye. M. (Chief Engineer), Garkusha, M. S.  
(Senior Engineer of Furnace Laboratory)

TITLE: Improvement of Heating Furnace for Mobile Pipewelding  
Stand

PERIODICAL: Metallurg, 1959, Nr 10, p 29 (USSR)

ABSTRACT: As a result of research (conducted by Titov, N. A.,  
Timofeichev, P. V., Zimin, Ya. S., Petrov, K. I.,  
Rachkov, G. A., Golyshkoy, M. S., and Vladimirov,  
L. M.) at Vyksa Metallurgical Plant (Vyksunskiy metal-  
lurgicheskiy zavod) satisfactory seams were obtained with  
welding-moment temperatures of 1370°C, i.e. melting  
temperature of ferrous oxide. The welding furnace was  
redesigned: (1) hearth width increased to 3000 mm;  
(2) eleven vertical 550 x 300 mm flues installed; (3)  
exhaust flues widened to 550 mm, facilitating gas  
escape and eliminating scale formation; (4) sagging  
of hearth beam prevented by installation of brick

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Improvement of Heating Furnace for  
Mobile Pipewelding Stand

75583  
SOV/130-59-10-15/20

supports in furnace center; (5) horizontal flues connected with vertical flues and spaced at 300 mm, arranged along the entire length of the furnace for better withdrawal of coldest gas. Advantages: (1) increased production; (2) decreased percentage of rejects; (3) fuel and metal saving. Future plans: fuller utilization of hearth width, increasing length of hearth and length of heated strip. There is 1 table.

ASSOCIATION: Vyksa Metallurgical Plant (Vyksunskiy metallurgicheskiy zavod)

Card 2/2

AUTHORS: Tsygankov, Ye. M. and Ratnikov, M. F. 133-58-4-10/40

TITLE: Stability of Unfired Magnesite-Chromite Bricks in Roofs  
of Open Hearth Furnaces (Stoykost' bezobzhigovogo  
magnezitokhromitovogo kirpicha v svodakh martenovskikh  
pechey)

PERIODICAL: Stal', 1958, Nr 4, pp 317-319 (USSR)

ABSTRACT: For the last two years open hearth roofs in the Vyksa Works were made either completely or partly from unfired magnesite-chromite bricks. Some data on the stability of roofs on the works is given in Table 1. The external appearance of unfired bricks after 581 and 623 heats is shown in Fig.1. Chemical composition of fired and unfired bricks from various zones of the roof after 380 heats - Tables 2 and 3. On the basis of the operational results the following conclusions are drawn: the stability of unfired magnesite-chromite bricks in roofs of 60 and 180 ton open hearth furnaces is 15 to 20% lower than that of fired bricks. In mixed roofs made from fired bricks at the front and back walls and unfired bricks in the middle part of the roof, their stability increases and stresses in roofs decrease due to the

Card 1/2

133-58-4-10/40

Stability of Unfired Magnesite-Chromite Bricks in Roofs of Open  
Hearth Furnaces

shrinkage of unfired bricks and the expansion of fired  
bricks on heating the furnace. In view of the  
comparatively low cost of unfired bricks, wider tests  
of their application in roofs of open hearth furnaces  
of various capacities should be made.

There are 3 tables and 5 figures.

ASSOCIATION: Vyksunskiy metallurgicheskiy zavod  
(vyksa Metallurgical Works)

1. Refractory materials--Stability 2. Open hearth furnaces  
--Materials

Card 2/2

TSYGANOV, Ye.M., inzhener.

~~Effect of the shape of strip edges on the strength of welded pipe joints.~~  
Effect of the shape of strip edges on the strength of welded pipe joints.  
Stal' 17 no.8:728-730 Ag '57. (MIRA 10:9)

1. Vyksunskiy metallurgicheskiy zavod.  
(Rolling (Metallwork)) (Pipe, Steel--Welding)

TSYGANKOVA, A.D.  
PARFENOV A.I.; SITNIKOVA, L.V.; TSYGANKOVA, A.D.; KARAKISHISHEVA, T.I.

Combined method for obtaining aureomycin and vitamin B<sub>12</sub>. Med.  
prom. 11 no.8:10-12 Ag '57. (MIRA 10:11)

1. Moskovskiy zavod meditsinskikh preparatov No.1.  
(AUREOMYCIN) (VITAMINS - B)

EPSHTEYN, D.I.; TSYGANKOVA, A.M.; SARAYEV, Yu.D.

Establishment of norms for machine-tool operations based on consolidated norms reduced to a single line. Mashinostroitel' no.11: 37-39 N '61. (MIRA 14:11) (Factory management)

KOVALENKO, Vladimir Ivanovich; SKOROKHODOV, Mikhail Arkad'yevich;  
TSYGANKOVA, D., red.; YAKOVLEVA, Ye., tekhn. red.

[Birth of the new] Rozhdenie novogo. Moskva, Mosk. rabochii,  
1961. 141 p. (MIRA 15:3)  
(Moscow region--Agricultural workers)

ZUYEV, V.P.; GILYAZETDINOV, L.P.; GYUL'MISARYAN, T.G.; SAFRONOV, N.Ya.;  
BERNSHTEYN, I.D.; GLAGOLEV, V.I.; TSYGANKOVA, E.I.; SOKOLOVA, V.V.;  
BYSTROV, K.M.; KHOKHLOV, B.P.

Some characteristics of the production of PM 70 carbon black in  
cyclone reactors with the use of thermogas oil. Kauch, i rez. 24  
no. 6:19-24 Je '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti i  
Novo-Yaroslavskiy sazhevyy zavod.

FOR RELEASE: 08/31/2001 BY GSA RDP86-00513R0017573100

ACCESSION NR: AP5016635  
5.11.8 x 10-2 m<sup>2</sup>/  
9 x 10-2 m<sup>2</sup>  
9 m<sup>2</sup> that

Card 2/3

box  
black  
crease in  
content of  
recommended to  
oil to green oil  
ASA 1 drums. Orig.  
Naugatuck

ASSOCIATION  
Research Institute  
Novo-Techcare Carbon Black

APPROVED FOR RELEASE: 08/31/2001

SUBMITTED: 00 OTHER:

NO REP SOV: 005  
Card 3/3 SP

CIA-RDP86-00513R00175310012-4"

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310012-4

TSYGANKOVA, G.,  
A. KIZEL, CR 24, 786-90, (1939)

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CIA-RDP86-00513R001757310012-4

~~100% check~~ 400% ~~check~~ 100% ~~check~~ at room temp

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CIA-RDP86-00513R001757310012-4"

Tsygankova, G.A.

KORENMAN, I.M.; FRUM, F.S.; TSYGANKOVA, G.A.

Solubility product of beryllium hydroxide. Zhur. ob. khim. 26 no.6:  
(MIRA 11:1)  
1558-1560 Je '56.

1.Gor'kovskiy Gosudarstvennyy universitet.  
(Beryllium hydroxides) (Solubility)

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CIA-RDP86-00513R001757310012-4"

LOGVINOVICH, E.G.; BRIKER, F.Yu.; DEGTEVA, S.F.; TSYGANKOVA, G.I.

Operational and economic efficiency of heavy-tonnage tankers.  
(MIRA 18:1)  
Trudy TSMIIMF 54:39-53 '64

DUBOVYY, Ye.D., prof.; KAL'FA, S.F., prof.; VOLOSHINA, L.F.; TSYGANKOVA, G.M.;  
DONDUA, I.G.

Treating various inflammatory diseases of the anterior chamber of the  
eye with radioactive phosphorus. Vest.oft. 72 no.5:37-43 S-0 '59.  
(MIRA 13:3)

1. Kafedra glaznykh bolezney (zaveduyushchiy - prof. S.F. Kal'fa) i  
kafedra rentgenologii i radiologii (zaveduyushchiy - prof. Ye.D.  
Dubovyy) Odesskogo meditsinskogo instituta imeni N.I. Pirogova.  
(EYE DISEASES, ther.)  
(PHOSPHORUS, radioactive)

TSYGANKOVA, I.I.

Category : USSR/Electronics - Gas Discharge and Gas-discharge Instruments H-7

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4312

Author : Vasil'eva, M.Ya., Tsygankova, I.I.  
Title : Effect of Small Nitrogen and Oxygen Impurities on the Current of a  
Non-Self-Sustaining Discharge and Determination of the Percentage  
Nitrogen Content in Argon.

Orig Pub : Vestn. Mosk. un-ta, 1955, No 12, 81-86

Abstract : An experimental investigation is made of the problem of the qualitative independence of the slope of the voltage-current characteristics of the non-self-sustained discharge current in argon on the presence of oxygen and nitrogen impurities in the argon. The investigations were carried out at argon pressures of 3 mm mercury. The voltage-current characteristics were plotted for the following impurity concentrations:  $10^{-3}$ ,  $10^{-2}$ , 1, and 2%. A sharply pronounced reduction in current is obtained with impurities from 10-2% and above. The reduction in current is caused by the disturbance of the metastable atoms of argon upon collision with the impurity molecules. It is proposed to use the described phenomenon for the determination of the percentage content of nitrogen in argon for concentrations from  $1 \times 10^{-3}$  to 2%.

Card : 1/1

SHATALOV, A.Ya.; TSYGANKOVA, L.Ye.; UGAY, Ya.A.

Anodic oxidation and the corrosion resistance of indium-antimony  
alloys. Zashch. met. 1 no.2:233-235 Mr-Ap '65. (MIRA 18:6)

1. Voronezhskiy gosudarstvennyy universitet.

L 2621-66 E/T(m)/EPF(c)/EMP(t)/EWP(b) IJP(c) JD/WB  
ACCESSION NR: AP5011367 UR/0365/65/001/002/0233/0235  
620.193.01 6/58 B

AUTHOR: Shatalov, A. Ya.; Tsygankova, L. Ye.; Ugay, Ya. A.

TITLE: Anodic oxidation and corrosion resistance of indium-antimony alloys

SOURCE: Zashchita metallov, v. 1, no. 2, 1965, 233-235

TOPIC TAGS: anodic oxidation, corrosion resistance, corrosion resistant alloy, antimony alloy, indium containing alloy

ABSTRACT: Anodic oxidation and corrosion resistance of indium-antimony alloys (0-100% Sb) was studied electrochemically. The intermetallic InSb compound was prepared by means of partial melting of n- and p-type single crystals with current carrier concentrations of  $3.5 \times 10^{14}$  and  $2.0 \times 10^{18}$ , respectively. The corrosion resistance experiments were carried out in 1-normal  $\text{H}_2\text{SO}_4$  and in hydrogen atmosphere for 4 days. The anodic oxidation process was studied in solutions with pH = 0-14 at current densities of 0.01-1 mA/cm<sup>2</sup> using InSb single crystals. The stationary potentials and rate of corrosion of In-Sb alloys in 1-normal  $\text{H}_2\text{SO}_4$  solution are shown in fig. 1 of the Enclosure. The maximum anodizing rate and the formation of

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L 2621-66

ACCESSION NR: AP5011367

a tight oxide layer on the anode coincides with an intermetallic InSb compound containing 51.5% Sb. The dependence of the rate of anodic oxidation (I) and of  $\frac{d}{dt}$  (I/C) (II) in 0.1n  $\text{Na}_2\text{B}_4\text{O}_7$  solution upon alloy composition is shown in fig. 2

of the Enclosure. The composition of the oxide layer formed on the anode containing 51.5% Sb corresponds to formula:  $(\text{In}_2\text{O}_3)_7 \cdot (\text{Sb}_2\text{O}_3)$ . The anodizing process is found to be independent of the type of conductivity of the anode material. Orig. art. has: 1 table, 2 figures, 1 formula.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University) *44.58*

SUBMITTED: 03Sep64

ENCL: 02

SUB CODE: MM, GC

NO REF SOV: 004

OTHER: 001

Card 2/4.

L 2621-66  
ACCESSION NR: AP5011367

ENCLOSURE: 01

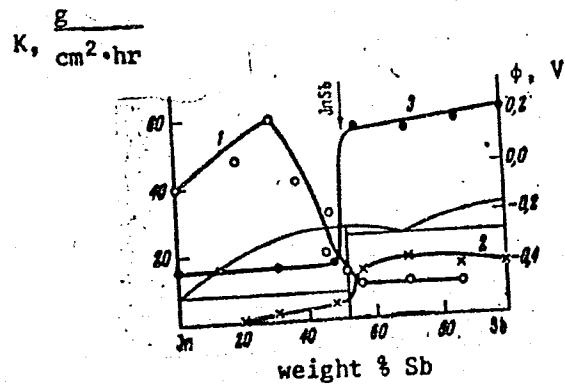


Fig. 1. 1--rate of corrosion based on indium; 2--rate of corrosion based on antimony and 3--stationary potentials in reference to a normal hydrogen electrode.

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L 2621-66

ACCESSION NR: AP5011367

ENCLOSURE: 02

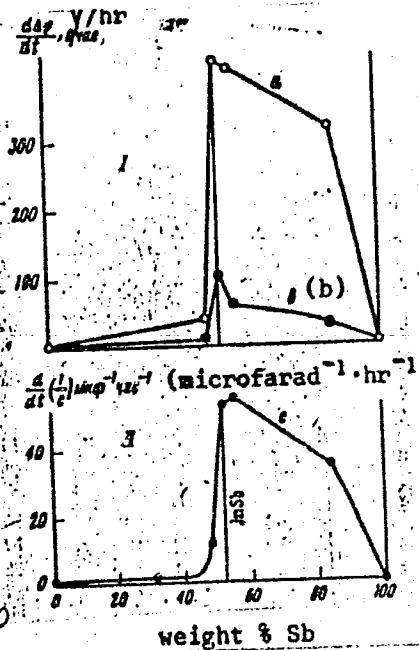


Fig. 2. a and  $\alpha$ --0.5 mA/cm<sup>2</sup>;  
b--0.1 mA/cm<sup>2</sup>.

Card 4/4 DP

E 3784-66 EWT(m)/EPF(c)/EWP(t)/EWP(b)  
ACCESSION NR: AP5014140

IJP(c) JD/WB  
UR/0365/65/001/003/0340/0342 44  
546.3-19'48'86  
620.193'

AUTHOR: Shatalov, A. Ya.; Tsygankova, L. Ye.; Ugay, Ya. A.  
TITLE: Anodic oxidation and corrosion resistance of cadmium-antimony alloys  
SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 340-342

TOPIC TAGS: cadmium alloy, antimony alloy, corrosion resistance, anodic oxidation

ABSTRACT: The authors study the behavior of cadmium-antimony alloys during anodic oxidation in solutions of various composition. The corrosion resistance of this system was studied in detail in a previous paper (Zh. fiz. Khimii, 1964, 38, 1501). The rate of anodic oxidation for this system is experimentally plotted as a function of alloy composition in buffer solutions with various pH values. The solutions are mixtures of 0.1N  $\text{Na}_2\text{B}_4\text{O}_7$  and 0.1N NaOH taken in definite proportions. A direct relationship is found between oxidation rate and corrosion resistance in these alloys. In the Sb-content range from 52 to 92 wt. % the rate of anodic oxidation

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ACCESSION NR: AP5014140

reaches a maximum with a simultaneous sharp reduction in the self-dissolution of these alloys which takes place when the limit of corrosion resistance is passed. This region is reflected on the phase diagram by the stable intermetallic compound CdSb and a heterophase alloy with an excess of antimony. Since the corrosion resistance of antimony-rich Cd-Sb alloys is highest, it is concluded that the capacity for anodic oxidation is directly connected with the protective properties of the oxide film which is formed, and consequently this capacity is determined by the structure of the film and by the composition of the solution in which the process takes place. The alloys have the capacity for anodic oxidation only in those pH regions where the oxide film is stable. Orig. art. has: 2 figures.

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ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

IN 55

SUBMITTED: 01Oct64

ENCL: 00

SUB CODE: MM

NO REF Sov: 005

OTHER: 000

PC  
Card 2/2

"APPROVED FOR RELEASE: 08/31/2001

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310012-4"

SHATALOV, A.Ya.; TSYGANKOVA, L.Ye.; UGAY, Ya.Ä.

Anodic oxidation of some intermetallic compounds. Elektrokhimiia  
1 no.9:1118-1123 S '65. (MIRA 18:10)

1. Voronezhskiy gosudarstvennyy universitet.

TSYGANKOVA, O. I.

Formulas for calculating discriminants of Jacobi, Laguerre,  
and Hermitian polynomials. Izv. vys. ucheb. zav.; mat. no.4:  
170-172 '62.

(MIRA 15:10)

1. Permskiy gosudarstvennyy universitet imeni A. M. Gor'kogo.  
(Polynomials)

T SYGANKOVA, T.S.

USSR/Chemical Technology - Chemical Products and Their Application. Silicates.  
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62380

Author: Vaganov, A. I., Staritskiy, P. G., Tsygankova, T. S.

Institution: None

Title: Acceleration of the Setting of Ship-Building Concrete by the Use  
of Water Absorbing Molds and Additives

Original

Periodical: Tr. Tsentr. n.-i. in-ta rech. flota, 1956, No 32, 3-15

Abstract: Concrete (C) with added 0.2% sulfite-alcohol liquor (SAL) and 2%  
 $\text{CaCl}_2$  on setting in water absorbing molds (WM) made of cardboard  
acquires after 3 days a strength equal to 70% of that reached  
after 28 days. Use of WM without additives although it raises the  
strength of C after any length of time by 28-32% does not produce  
after 3 days a strength equal to 70% of that of specification value.  
Use of WM in combination with SAL and  $\text{CaCl}_2$  enhances adhesion to  
reinforcements and increases impermeability of C. Use of the 3-day-  
old C has no detrimental effect on its ultimate strength.

Card 1/1

VASIL'YEVA, M.Ya.; TSYGANKOVA, I.I.

Effect of nitrogen and oxygen trace admixtures on the independent discharge current strength and the per cent determinations of the nitrogen content in argon. Vest.Mosk. un.10 no.12:81-86 (MLRA 9:5) D '55.

1. Kafedra elektroniki.  
(Electric discharges through gases) (Argon)

SHATALOV, A.Ya.; BONDAREVA, T.P.; TSYGANKOVA, L.Ye.

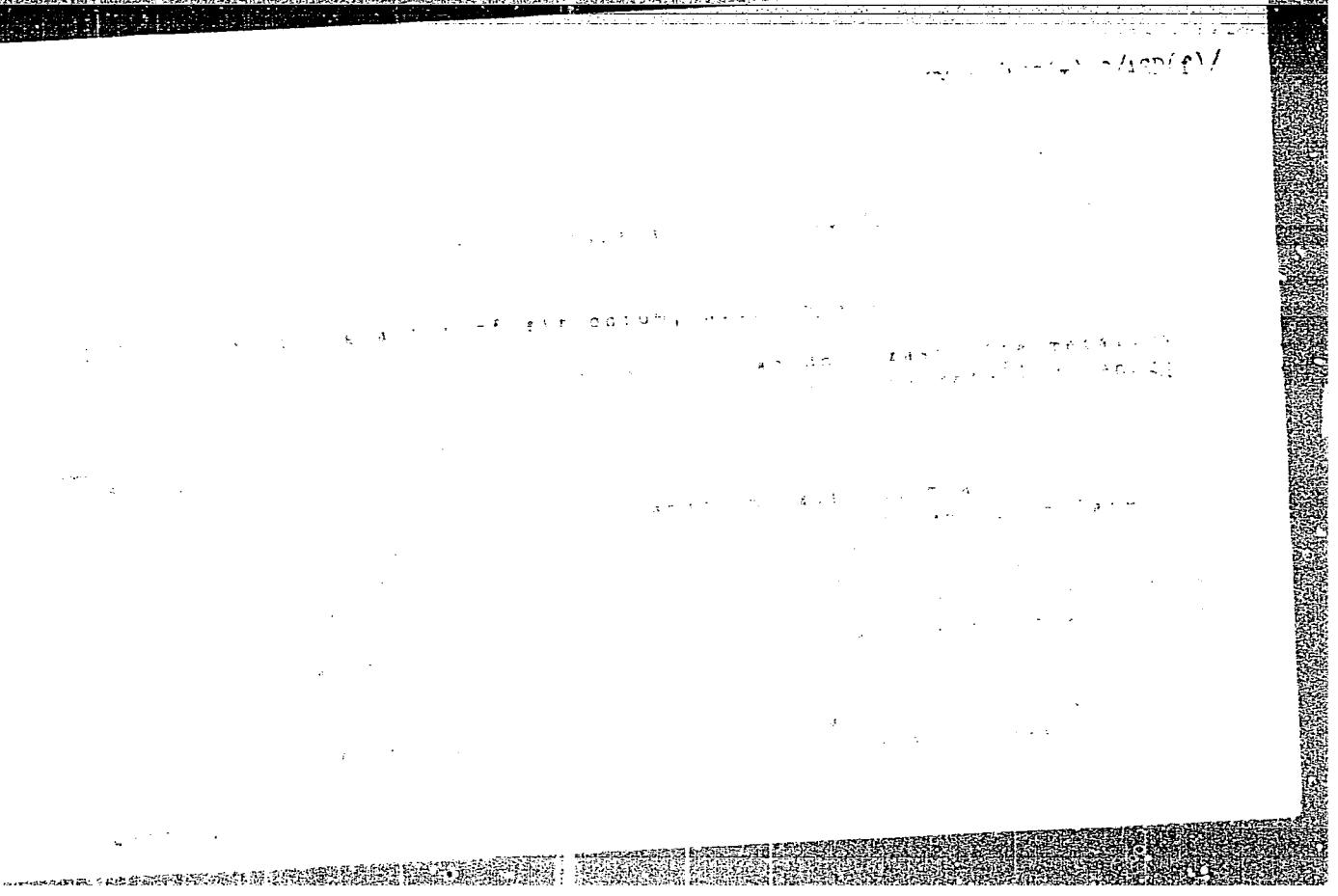
Anodic oxidation of vanadium and niobium. Izv.vys.ucheb.zav.;khim.i  
khim.tekh. 6 no.4:631-636 '63. (MIRA 17:2)

1. Voronezhskiy gosudarstvennyy universitet. Kafedra fizicheskoy khimii.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310012-4

SECRET//COMINT//  
REF ID: A6572



APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310012-4"

100000

ACCESSION NR: AT4041088

DESCRIPTION: Experimentally casted bar with 99.996% pure zirconium.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310012-4

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310012-4"

ABRILOV, A.Ya.; LBYGAIKOVA, L.Ye.; LBYK, Ya.P.

Electrochemical behavior and corrosion resistance of the alloys  
of calcium and zinc with antimony in sulfuric acid. *Ther. fiz.*  
*khim. 33* no.6:1501-1508 Je '64. (JINR 12:3)

1. Voronezhskiy gosudarstvennyy universitet.

L 12680-63

ACCESSION NR: AP3000648  
EWP(q)/EWI(m)/BDS AFFTC/ASD JD/JG

S/0080/63/036/003/0588/0594

AUTHOR: Shatalov, A. Ya.; Bondareva, T. F.; Tsygankova, L. Ye.

56

TITLE: Electrochemical research on the passivation of niobium and vanadium

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 3, 1963, 588-594 27 27

TOPIC TAGS: passivation, anodizing oxides, polarization, repassivation, niobium, vanadium

ABSTRACT: The behavior of the electrode potentials of niobium and vanadium during anodic polarization in acid and caustic solutions was investigated. The potential of Nb, with constant current density, increased with time of polarization and reached a voltage of several tenths of a hundred. In the beginning sections of the polarization curves, there is a proportionality between the potential reached and the quantity of electricity, independent of the current strength applied to the electrode. The potentials of the Nb anode in hydrochloric, nitric, sulfuric, phosphoric acid solutions cannot be reduced to one but to the ohmic drop in voltage as a result of the anodizing layer of oxide. The electrode potentials of the V anode on the part of the polarization curve where ionization occurs, depend on current strength but not on the composition of the solution. Polarization tends toward negative values in proportion to the increase in the pH of the solution. Vanadium

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L 12680-63

ACCESSION NR: AP3000648

is most easily passivated in moderately caustic solutions, with the formation of an insulating layer of vanadites. With higher potentials of over 0.6 v, repassivation occurs in caustic media, which is explained by the formation of vanadate ions.  
Orig. art. has: 3 tables, 6 figures.

ASSOCIATION: none

SUBMITTED: 24Oct61

DATE ACQ: 12Jun63

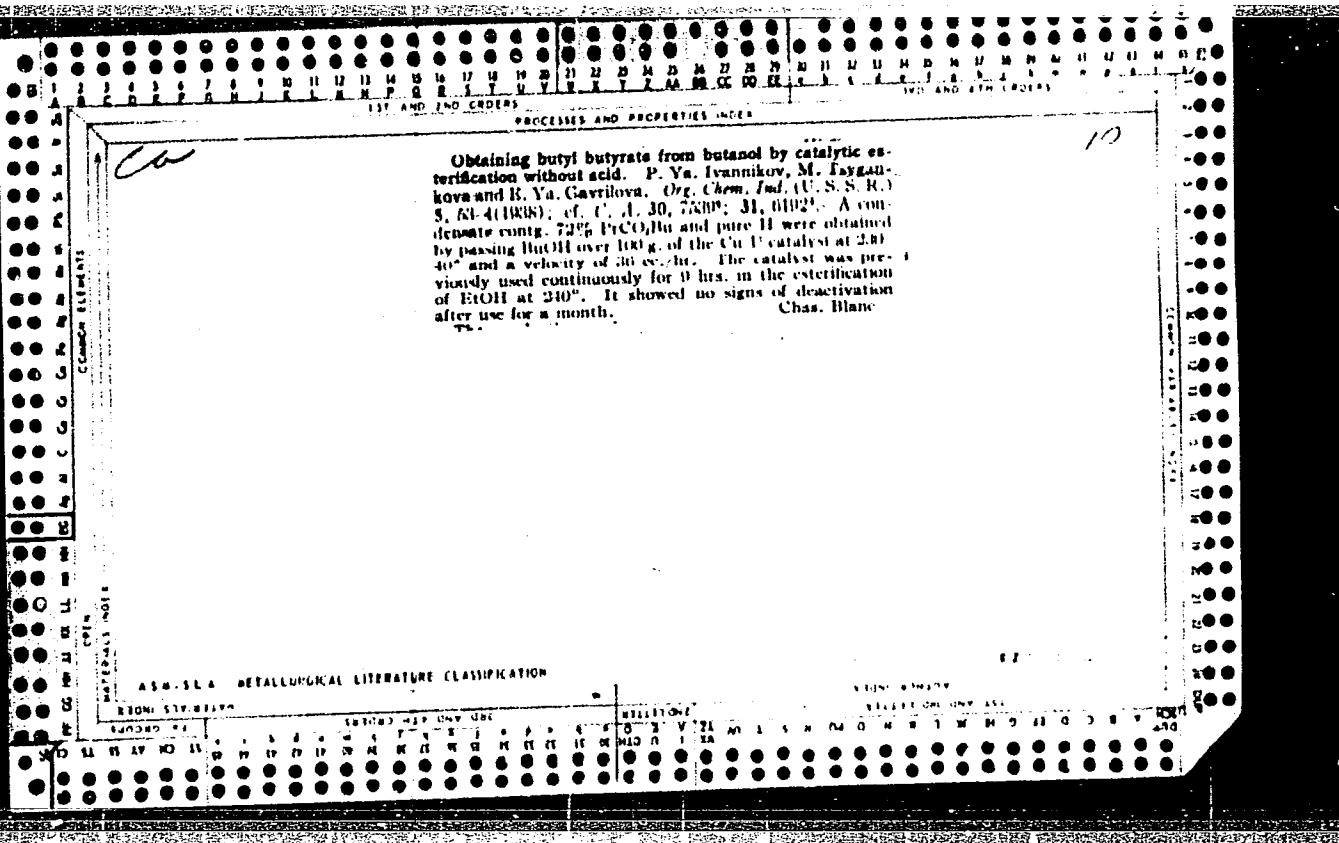
ENCL: 00

SUB CCDE: CH

NO REF SOV: 001

OTHER: 010

Card 2/2



TSYGANKOVA, N.Ya.; KADUSHINA, V.A.

Using phenolic resins for the manufacture of models and dies.  
Plast.massy no.3:49-51 '60. (MIRA 13:6)  
(Phenol condensation products) (Plastics)

TSYGANKOVA, N. Ya.

TSYGANKOVA, N. Ya. -- "The Effect of Various Factors and Conditions of the Condensation of Phenol with Aqueous Solutions of Formaldehyde on the Properties of the Tars Obtained." Min Culture USSR. Moscow Order of Lenin Chemicotechnological Institute imeni D. I. Mendeleyev. Moscow, 1954 (Dissertation for the Degree of Candidate in Technical Sciences.)

So; Knizhaya Letopis' No 3, 1956

S/191/60/000/009/010/010  
B013/B055

AUTHOR: Tsygankova, N. Ya.

TITLE: Improvement of the Quality of Polyvinyl Chloride

PERIODICAL: Plasticheskiye massy, 1960, No. 9, p. 79

TEXT: The author gives a report on the meeting of the sektsiya vysokopolimerov Nauchno-tehnicheskogo soveta Gosudarstvennogo komiteta Soveta Ministrov SSSR po khimii (Section of High Polymers of the Scientific Council of the State Committee for Chemistry of the Council of Ministers USSR) held on June 3 of this year under the chairmanship of Academician V. A. Kargin. Deputies from sovnarkhoz and plants assisted in the work done by the Section. The meeting was concerned with the choice of optimum preparation methods for polyvinyl chloride and the improvement of its technical properties. B. A. Krentsel' discussed the present state of polyvinyl-chloride production, the application of plasticizers and fillers, ways of improving Soviet polyvinyl chloride, and the necessity of industrial production of plasticizers. He suggested the preparation of a new FOCT (GOST) with higher indices for polyvinyl chloride. A.S.Shevlyakov

Card 1/2

Improvement of the Quality of Polyvinyl  
Chloride

S/191/60/000/009/010/010  
B013/B055

compared the three production methods of polyvinyl chloride, block, emulsion, and suspension polymerization, and described them as being equivalent from the economical point of view. G. V. Struminskiy compared the characteristics of various polyvinyl-chloride types produced by foreign firms. It was stated in the resolution adopted by the Section that polyvinyl chloride is one of the most-produced plastics, and that its production in the USSR increases from year to year. In the USSR, polyvinyl chloride is mainly produced by the suspension method. Toward the end of the Seven-year Plan, 30% of the total production will be by the latex method. The necessity of improving the quality of polyvinyl chloride is stressed. It is intended to prepare a new GOST and to publish recommendations for the application of new emulsifiers and plasticizers in 1960. Drafts for the new production method of polyvinyl chloride are to include measures vouchsafing resin preparation in accordance with the new GOST. The scientific research program is to be supplemented by work in the field of vinyl-chloride production from ethylene and vinyl fluoride. ✓

Card 2/2

SOSINA, S.M.; PASHKOVSKAYA, M.T.; Prinimali uchastiye: SUPRANOVICH, V.A.,  
mladshiy nauch. sotrudnik; NOVIK, V.G., mladshiy nauch. sotrudnik;  
TSYGANKOVA, R.I., tekhnik-tehnolog

Methods for the disinfectibn of mclasses for the production of baker's  
yeast. Trudy BNIIIPPT no.4:113-126 '61. (MIRA 17:10)

TSYGANKOVA, S.T., kand.biol. nauk; FRANTSEV, V.I., kand.med.nauk;  
KIRICHENKO, M.N.

Hemopoietic characteristics in patients with Fallot's tetralogy.  
(MIRA 17:1)  
Ter. arkh. 35 no. 4:74-79 Ap '63.

1. Iz klinicheskoy laboratorii (zav. I.I.Yevnina) i khirur-  
gicheskogo otdeleniya (zav. v.I.Frantsev) Instituta eksperi-  
mental'noy biologii i meditsiny (dir. - prof. Ye. N.Meshalkin)  
Sibirskogo otdeleniya AN SSSR.

TSYGANKOVA, S. T. Cand Biol Sci -- "Processes of regeneration in the bone marrow,  
and peripheral blood after acute hemorrhage and <sup>after administration</sup> ~~introduction~~ of a blood-substitute,  
liquid into the organism (Experimental study)." Mos, 1960 (Min of Higher and  
Secondary Specialized Education RSFSR. Mos Technological Inst of Meat and Dairy  
Industry). (KL, 1-61, 189)

-147-

TSYGANKOVA, T. M., KAL'FA, S. F. (Prof.), DUBOVY, E. D. (Prof.) and VOLOSHINA, L. F.

"The Application of Radiophosphorus in the Treatment of Certain Diseases of the Eye", a report presented at the Scientific Conference Devoted to the Application of Radioactive Substances in Medicine, Odessa Medical Institute, December 1954, Arkhiv, Patol., No. 2, 1956

TSYGANKOVA, S.T.

Restoration of the peripheral blood of rabbits three to four  
months old following acute blood loss. Uch.zap. 2-go MGMI 16:  
104-108 '58. (MIRA 13:6)  
(HEMORRHAGE)